

**COPY
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JUN 1 1 2001

Illinois Commerce Commission
RAIL SAFETY SECTION

Form 3

STATE OF ILLINOIS

ILLINOIS COMMERCE COMMISSION

Petition for permission to make a major change in crossing
Protection, ~~or to install new protection under 92 Illinois~~
Administrative Code 1535400(d)

Date: June 7, 2001

X-11656

T01-0038

To the Illinois Commerce Commission:

The petitioner, Union Pacific Railroad Company shows

- (1) That it is a railroad company operating a line of railroad in the State of Illinois.
- (2) That petitioner proposes and hereby makes application for authority to make a major change in crossing protection, or to install new protection, under 92 Illinois Administrative Code 1535.400(d) adopted by this Commission.
- (3) That the location of the crossing, the nature of protection now established and proposed to be established, and other pertinent facts in connection therewith, are set forth in the statement attached to and forming part of this petition.
- (4) That petitioner's reasons and purpose, with reference to its said proposal are to install 4-quad Flashing Light Signals, Gates, and Constant Warning Time Circuitry.
- (5) That the facts set forth in this petition and in the statement and plans or plats attached thereto, are, all of them, true and correct to the best of petitioner's knowledge and belief.

WHEREFORE, the petitioner prays that the Commission will, if deemed desirable by the Commission, set the aforesaid matter for hearing, and that the Commission enter an order or adopt a resolution consenting to and granting authority for the making of the said proposed changes in or additions to crossing protection.

UNION PACIFIC RAILROAD COMPANY

By Andrew Murphy
Andrew Murphy
UPRR Industry & Public Projects

DOCKETED

Statement, attached to and part of an application for permission to make a major change in crossing protection or to install new protection, under 92 Ill. Adm. Code 1535.400(d).

1. Name of railroad company: **Union Pacific Railroad Company**
2. Crossing Number: **290** 732K
3. Village or-City:-**Dwight**
4. Name of Street-or Highway: **TR 216B**
5. Public Agency Maintaining Highway: **Livingston. County**
6. Protection now established: **Crossbucks**
7. Protection desired: **4-quad gates & constant warning circuits**
8. Number of main tracks: **1** Other tracks:
9. Number of passenger train movements: 6 am to 6 p.m: 3
6 pm to 6 am: **3**
10. Number of freight train movements: 6 am to 6 pm: **1**
6 pm to 6 am: **0**
11. Approximate Number of switch moves: 6 am to 6 pm: **0**
6 pm to 6 am: **0**
12. Maximum speed of trains at crossing on each track in each direction: **79 MPH**
13. Passenger platforms served by tracks within the limits of track circuits: **NONE**
14. Where automatic signals or gates are proposed, approximate number of train or engine movements daily which would cause false indications or operations: **NONE**

15. In addition to the information listed herein before in Form 3, attach a track plan or the plat of the proposed crossing. This plan should show:

- (a) Width of surface or highway.
- (b) Highway intersections (including private driveways to be so indicated) and location of established highway signs or signals within 100 feet of crossing.
- (c) Location of tracks, switches, and other railroad facilities such as block signals, etc. within limits of track circuits, present and/or proposed.
- (d) Where automatic protection is proposed, show proposed location of signals (side lights, cantilevers, etc., if any).
- (e) Show the length of each operating track section within the control limits of the crossing protection and its function.

ADDITIONAL INFORMATION

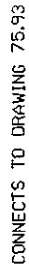
VERIFICATION

I, **Andrew T. Murphy**, first being duly sworn upon oath depose and say that I am **Engineering Inspector-Industry & Public Projects of Union Pacific Railroad Company**, a Delaware Corporation; that I have read the above and foregoing petition by me subscribed, and know the contents thereof; that said comments are true in substance and in fact, except as to those matters stated upon information and belief, and as to those, I believe same to be true.

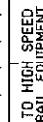
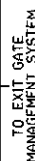
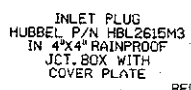
Union Pacific Railroad Company

By Andrew Murphy

Andrew T. Murphy
UPRR Industry & Public Projects



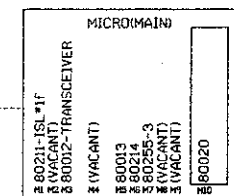
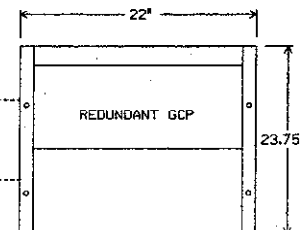
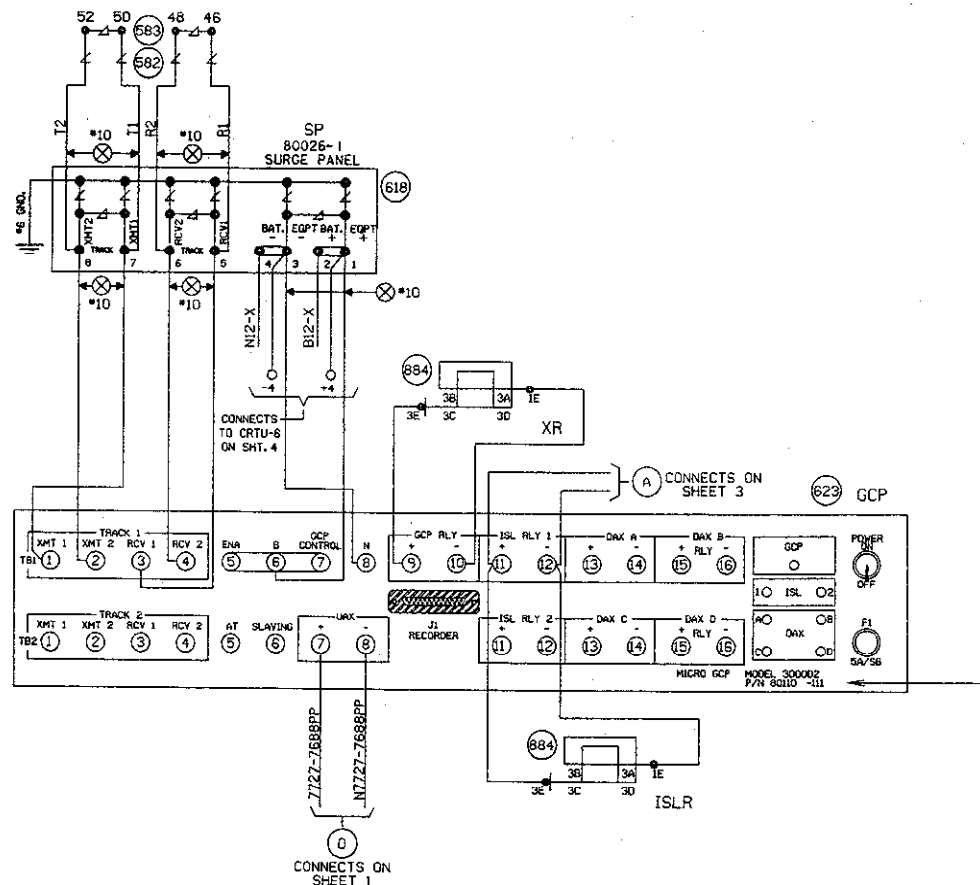
(REV. 7-9-00) (1TKBG.1)



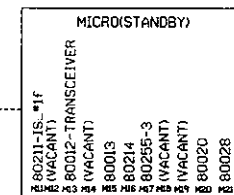
RTE-CSL

OMAHA NEBR.

NOTE:
THIS DRAWING WAS DESIGNED FOR A SPECIFIC APPLICATION. IF A MODIFICATION OR REDESIGN OF THIS DRAWING CAUSES ANY MODULES TO CHANGE, THE UNIT'S PART NUMBER MUST BE CHANGED TO CORRESPOND ACCORDINGLY.



CONTROL INTERFACE ASSEMBLY
DAX #2 MODULE
DAX #1 MODULE
DATA RECORDER MODULE
PROCESSOR MODULE
RELAY DRIVE MODULE
TRANSCEIVER #2 MODULE
TRANSCEIVER #1 MODULE
ISLAND #2 MODULE
ISLAND #1 MODULE



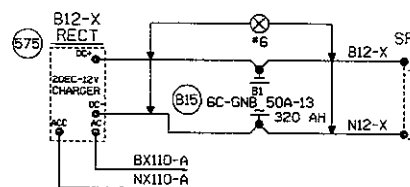
TRANSFER MODULE
CONTROL INTERFACE
DAX #2 MODULE
DAX #1 MODULE
DATA RECORDER MODULE
PROCESSOR MODULE
RELAY DRIVE MODULE
TRANSCEIVER #1 MODULE
TRANSCEIVER #2 MODULE
ISLAND #2 MODULE
ISLAND #1 MODULE

NEW SHEET

DWIGHT, ILLINOIS
TR 2168
M.P. 76.88
JOLIET SUBDIVISION
D.O.T. #290 732K
PROJ. #

NOTE:
EACH TRANSMITTER TO RAIL WIRE FROM TBI-1 AND TBI-2 MUST NOT EXCEED THE MAXIMUM LENGTH SPECIFIED IN THE TABLE SHOWN BELOW. THE RECEIVER WIRE LENGTH IS NOT CRITICAL. DOES NOT APPLY TO 6 TRACK WIRE APPLICATION.

MF FREQUENCY (HZ)	MAXIMUM TRANSMIT WIRE LENGTH (FEET)
86	100
114	125
156	150
211	200
285-970	250



5-1-01
UPGRADE CROSSING PROTECTION FOR THE HIGH SPEED RAIL PROJ. FROM MAZONIA TO SPRINGFIELD.
WFE 004438E J.J.F.
WITT/JNM

UNION PACIFIC
SIGNAL DESIGN

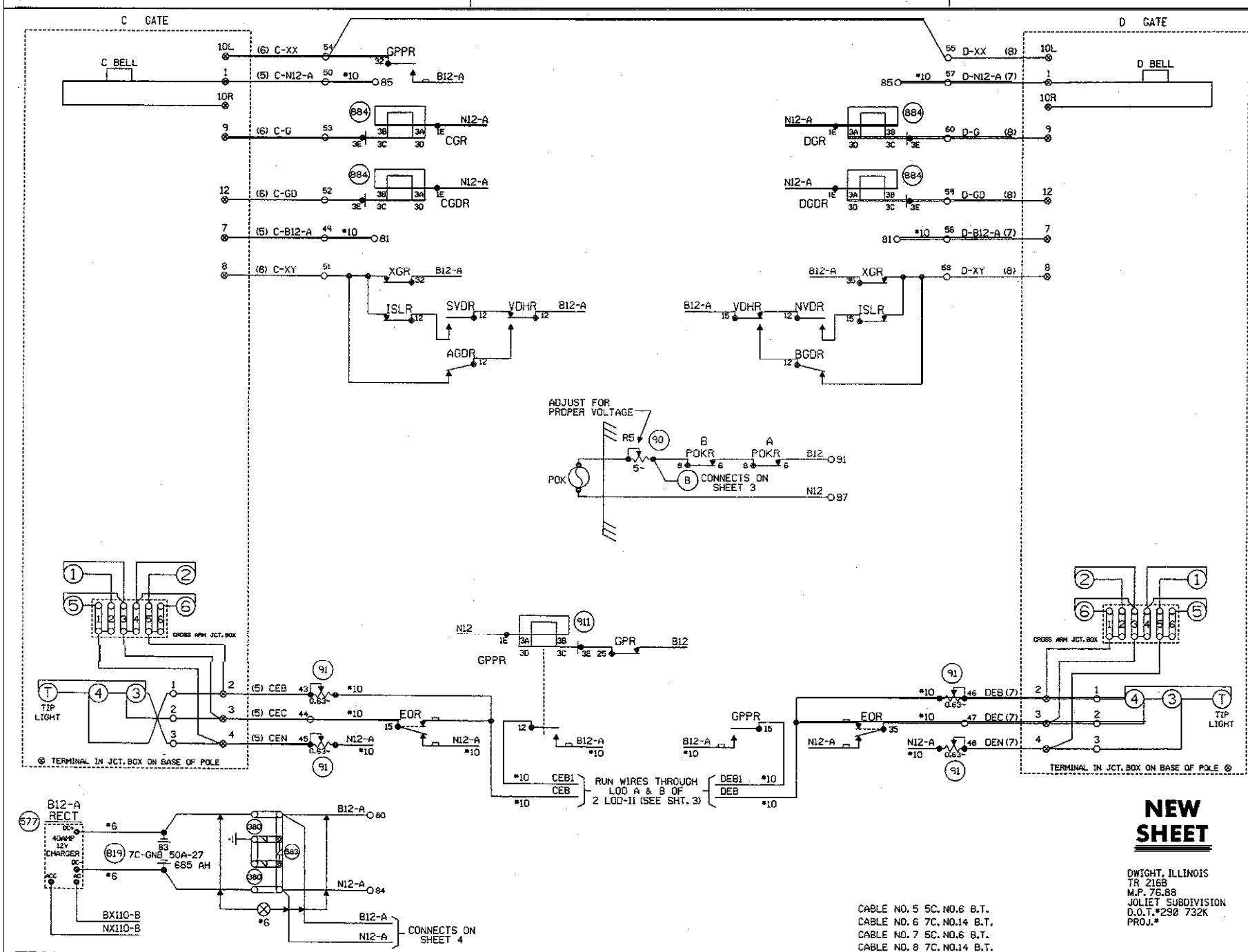
DES: WITT.JND.
DIG: WITT.JND.
CHK: J.J.F.
A.F.E. 004438E
ID: CSL7688.5X


UNION PACIFIC RAILROAD
JOLIET, ILLINOIS
TO BLOOMINGTON, ILLINOIS
C.T.C. CIRCUITS

OFFICE OF CHIEF ENGR

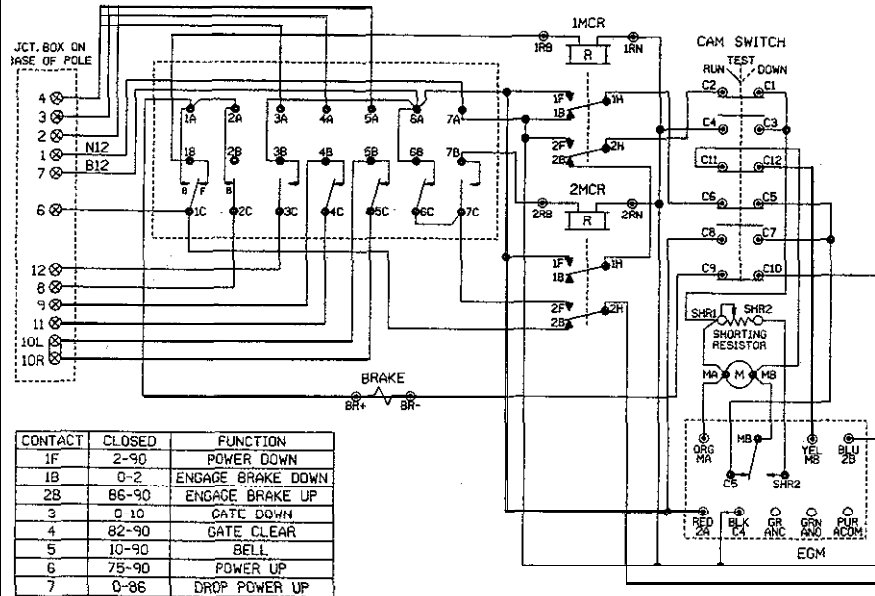
OMAHA NEBR.

DATE 5-1-01
SHEET 5
DWG 76.88
RTE-CSL



5-1-01		MODIFICATION LEVEL			DES: WITT/IND.	UNION PACIFIC RAILROAD JOLIET, ILLINOIS TO BLOOMINGTON, ILLINOIS C.T.C. CIRCUITS	DATE 5-1-01
UPGRADE CROSSING PROTECTION FOR THE HIGH SPEED RAIL PROJ. FROM MAZONIA TO SPRINGFIELD, ILL. AFE 004438E WITT/JNM	Q.A. LAST LEVEL CHK'D.	DA	DIG: WITT/IND.		SHEET 7		
	LAST LEVEL MOD. THIS TYP.	CZ	CHK: J.J.F.		DWG 76.88		
	LAST LEVEL BY DESIGNER.	DD	A.F.E. 004438E		RTE-CSL		
	CHANGED FROM TYP.? Y/N	Y	ID: CSL7688.7X				
		SIGNAL DESIGN		OFFICE OF CHIEF ENGR		BY: JLM/NEB	

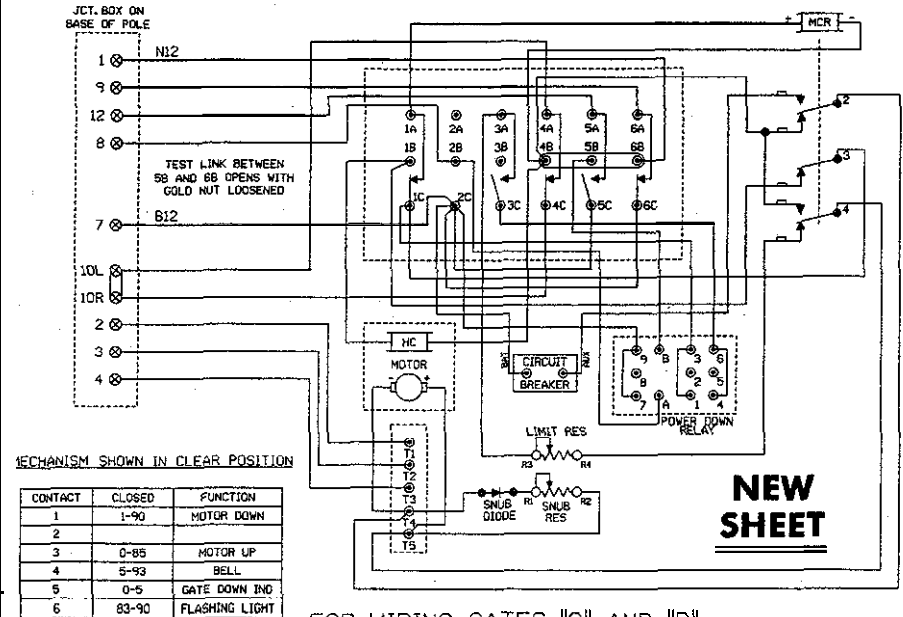
WCH 3597 EXIT GATE



MECHANISM SHOWN IN CLEAR POSITION

FOR WIRING GATES "C" AND "D"

US&S MODEL 95 EXIT GATE

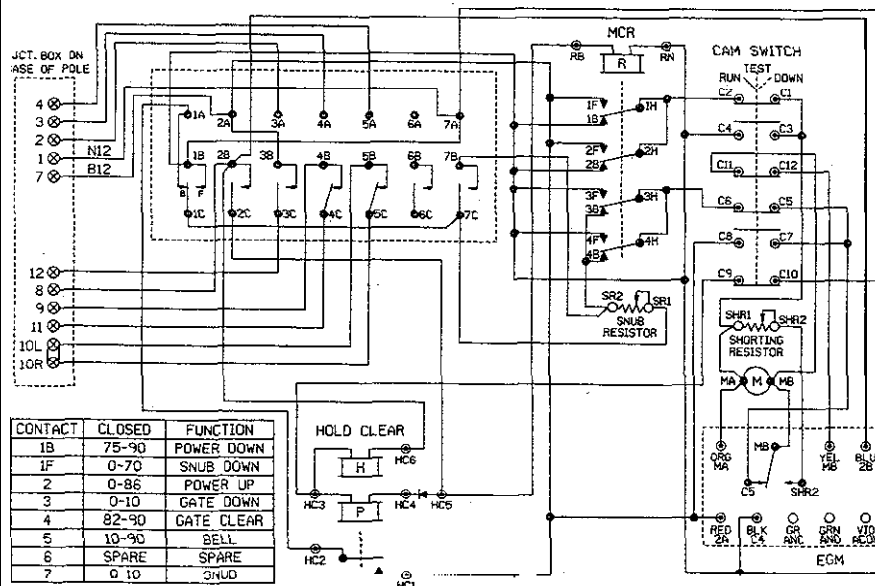


MECHANISM SHOWN IN CLEAR POSITION

FOR WIRING GATES "C" AND "D"

NEW SHEET

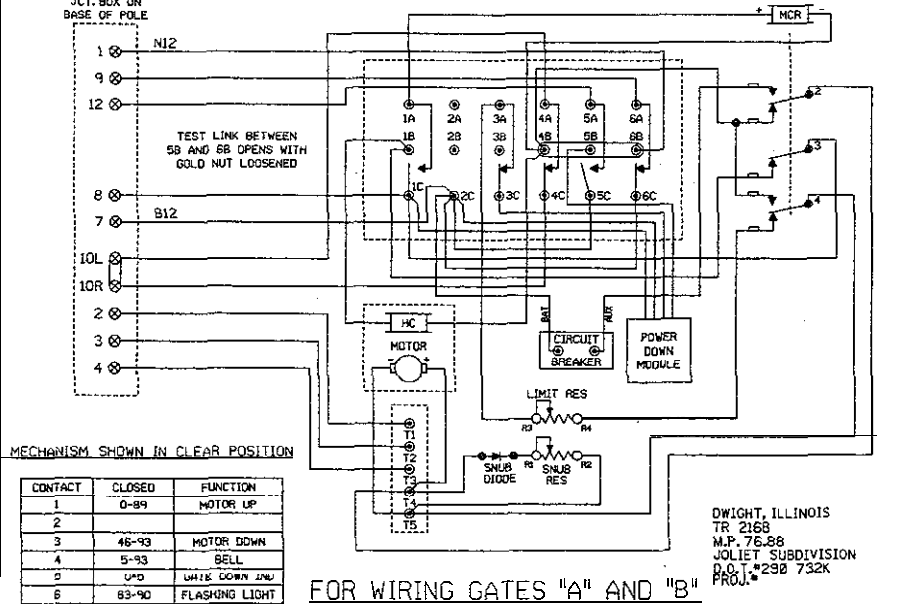
WCH 3597 ENTRANCE GATE



MECHANISM SHOWN IN CLEAR POSITION

FOR WIRING GATES "A" AND "B"

US&S MODEL 95 ENTRANCE GATE



MECHANISM SHOWN IN CLEAR POSITION

FOR WIRING GATES "A" AND "B"

DWIGHT, ILLINOIS
TR 2168
M.P. 76.88
JOLIET SUBDIVISION
P.O. #290 732K
PROJ.

5-1-01
UPGRADE CROSSING
PROTECTION FOR THE
HIGH SPEED RAIL
PROJ. FROM ILLINOIS
TO SPRINGFIELD
J.J.F.
AF 004438E

MODIFICATION LEVEL
G.A. LAST LEVEL CHK'D.
LAST LEVEL MOD. THIS TYP.
LAST LEVEL BY DESIGNER.
CHANGED FROM TYP.2 Y/N

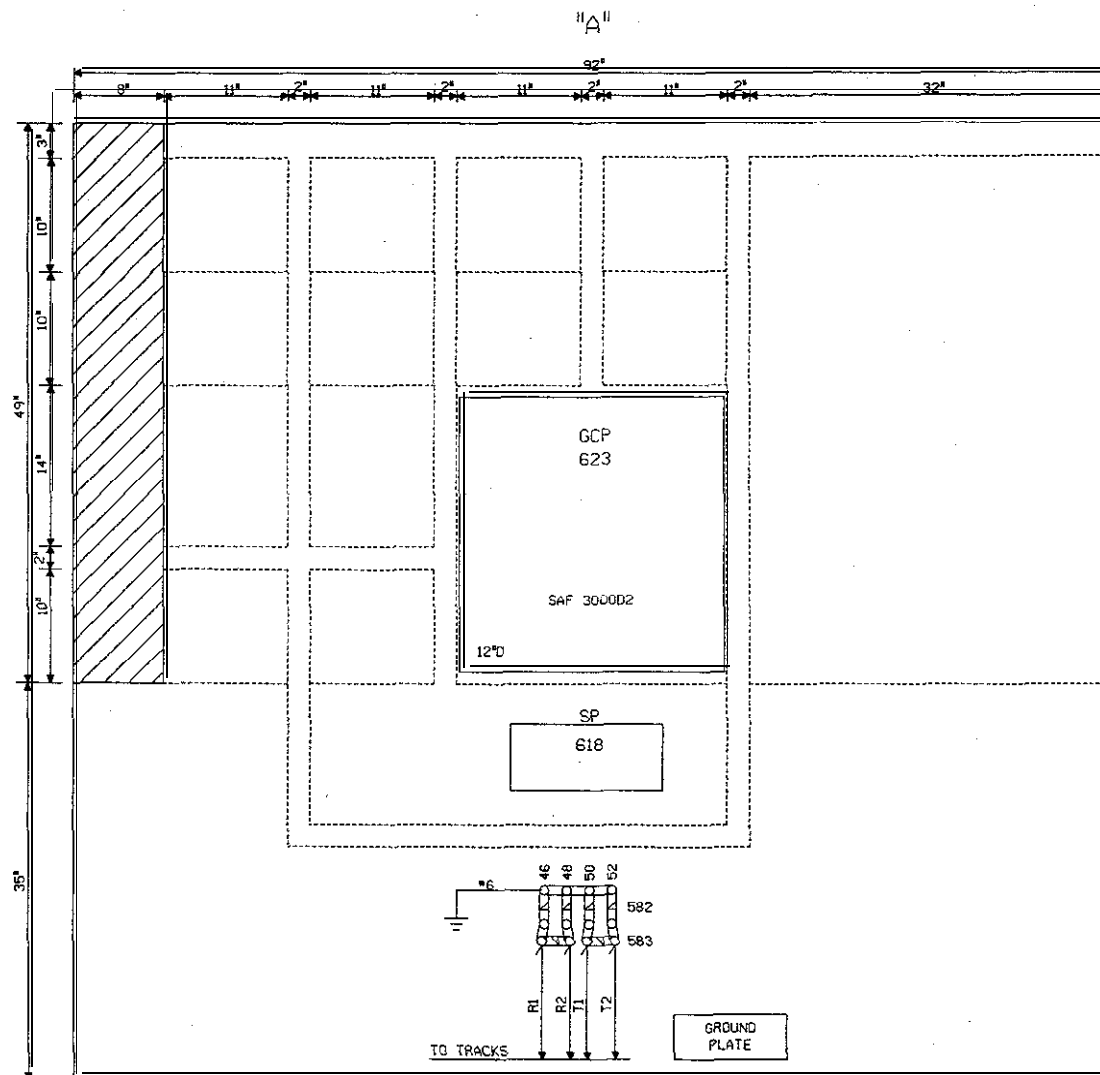
UNION PACIFIC
SIGNAL DESIGN

DES: WTT/IND.
DIG: WTT/IND.
CHK: J.J.F.
A.F.E. 004438E
ID: CSL7688.8X

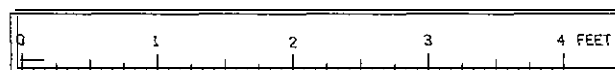
UNION PACIFIC RAILROAD
JOLIET, ILLINOIS TO
BLOOMINGTON, ILLINOIS
C.T.C. CIRCUITS
OFFICE OF CHIEF ENGINEER

DATE 5-1-01
SHEET 8
DWG 76.88
RTE-CSL

○




TWO CABLE ENTRANCES ON THIS WALL



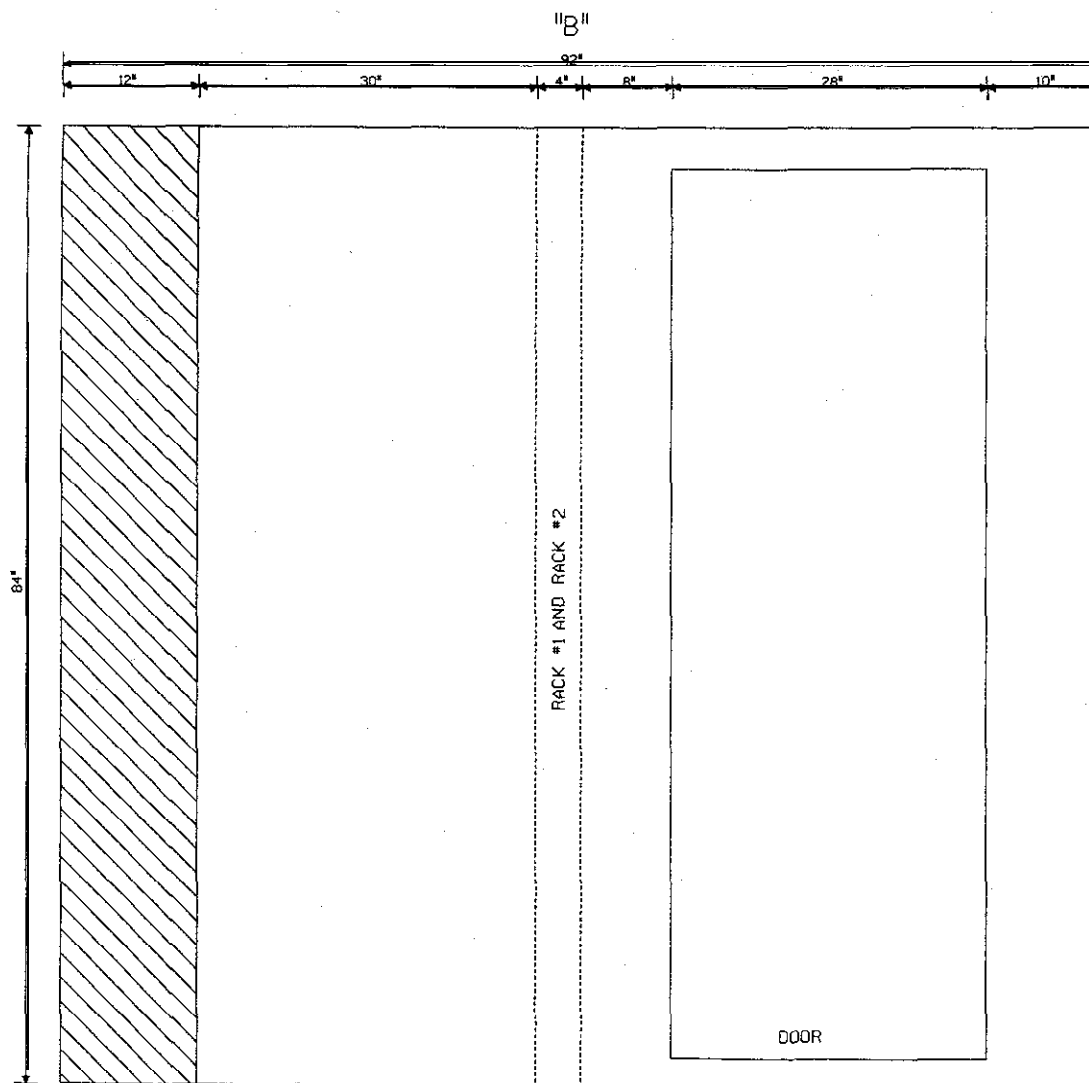
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**NEW
SHEET**

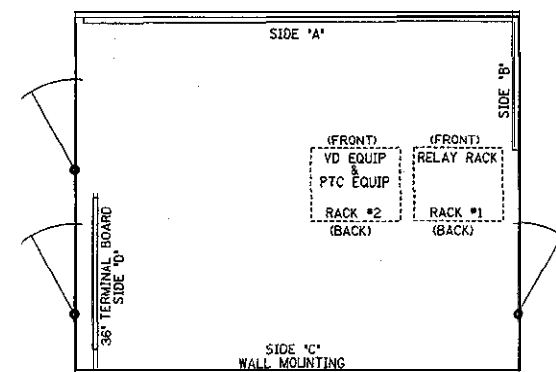
DWIGHT, ILLINOIS
TR 216B
M.P.75.88
JOLIET SUBDIVISION
D.O.T.*290 732K
PROJ.*

5-1-01 UPGRADE CROSSING PROTECTION FOR THE HIGH SPEED RAIL PROJ. FROM MAZONIA TO SPRINGFIELD. AFE 004438E J.J.F. WITT/JNM		MODIFICATION LEVEL		 UNION PACIFIC SIGNAL DESIGN	DES: WITT/JND.	UNION PACIFIC RAILROAD JOLIET, ILLINOIS TO BLOOMINGTON, ILLINOIS C.T.C. CIRCUITS OFFICE OF CHIEF ENGR OMAHA NEBR.		DATE 5-1-01
Q.A. LAST LEVEL CHK'D		DA			DIG: WITT/JND.			SHEET 9
LAST LEVEL MOD. THIS TYP.		CZ			CHK: J.J.F.			DWG 78.88
LAST LEVEL BY DESIGNER.		DD			A.F.E. 004438E			RTE-CSL
CHANGED FROM TYP.? Y/N		Y			ID: CS.7688.9X			

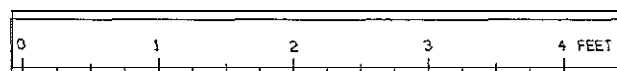
(REV. 7-9-00) (HOUSE.TYP)



PLAN VIEW
8'x8' HOUSE
-NO SCALE-




**NEW
SHEET**

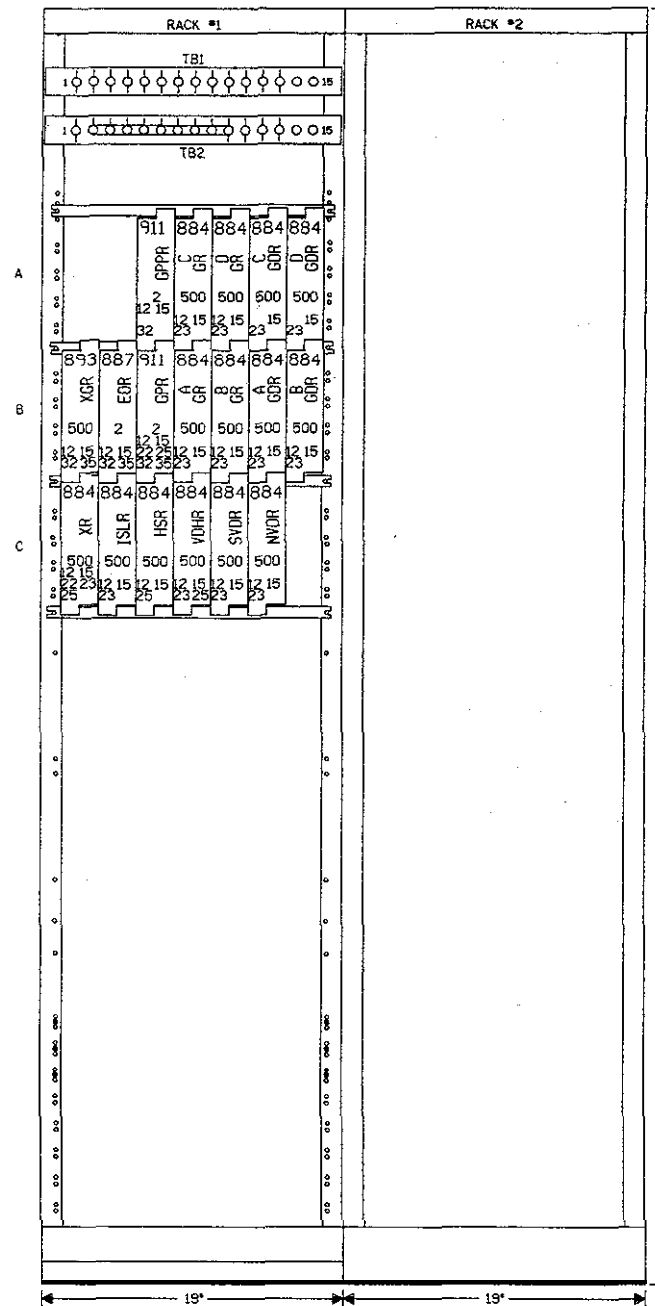
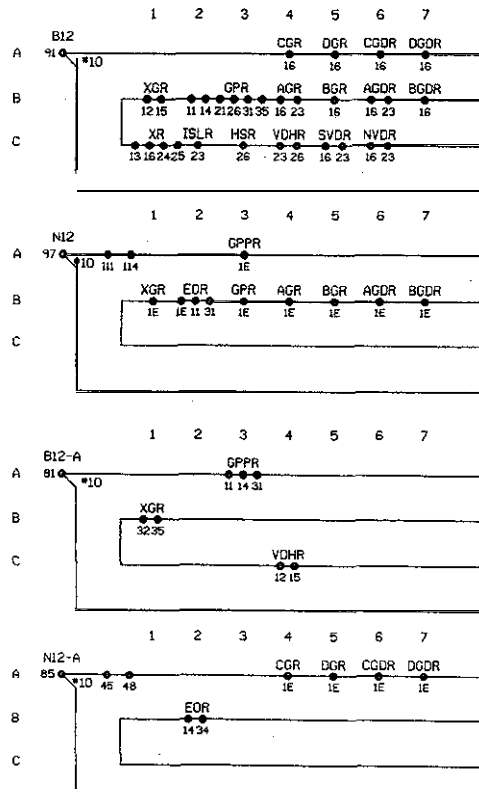


SCALE: 1.5 INCHES = 1 FOOT

DWIGHT, ILLINOIS
TR 2168
M.P. 76.88
JOLIET SUBDIVISION
D.O.T. #290 732K
PROJ.*

					5-1-01 UPGRADE CROSSING PROTECTION FOR THE HIGH SPEED RAIL PROJ. FROM MAZONIA TO SPRINGFIELD. JJE APE 0044385 WITT/JNM	<table><tr><th colspan="2">MODIFICATION LEVEL</th></tr><tr><td>LAST LEVEL CHG'D.</td><td>DA</td></tr><tr><td>LAST LEVEL MOD. THIS TYP.</td><td>CZ</td></tr><tr><td>LAST LEVEL BY DESIGNER.</td><td>DD</td></tr><tr><td>CHANGED FROM TYP. Y/N</td><td>Y</td></tr></table>	MODIFICATION LEVEL		LAST LEVEL CHG'D.	DA	LAST LEVEL MOD. THIS TYP.	CZ	LAST LEVEL BY DESIGNER.	DD	CHANGED FROM TYP. Y/N	Y	<div>UNION PACIFIC</div> <div></div> <div>SIGNAL DESIGN</div>	DES: WITT/ING. DIO: WITT/ING. CRK: J.J.F. R.P.E. 0044382 ID: CSL 7688.10X	UNION PACIFIC RAILROAD JOLIET, ILLINOIS TO BLOOMINGTON, ILLINOIS C.T.C. CIRCUITS OFFICE OF CHIEF ENGR OMAHA, NEBR.	DATE 5-4-01 SHEET 10 DWG 76.88 RTE-CSL
MODIFICATION LEVEL																				
LAST LEVEL CHG'D.	DA																			
LAST LEVEL MOD. THIS TYP.	CZ																			
LAST LEVEL BY DESIGNER.	DD																			
CHANGED FROM TYP. Y/N	Y																			

(REV. 7-9-00) (HOUSE.TYP)

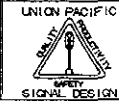


NEW SHEET

DWIGHT, ILLINOIS
TR 2168
M.P. 76.88
JOLIET SUBDIVISION
D.O.T. #290 732K
PROJ. #

5-1-01
UPGRADE CROSSING
PROTECTION FOR THE
HIGH-SPEED RAIL
PROJ. FROM MAZONIA
TO SPRINGFIELD,
A.F.E. 004438E
WITT/JNM

MODIFICATION LEVEL	
Q.A. LAST LEVEL CH'G'D.	DA
LAST LEVEL MOD. THIS TYP.	CZ
LAST LEVEL BY DESIGNER.	DD
CHANGED FROM TYP. Y/N	Y

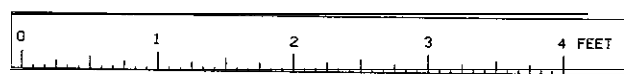
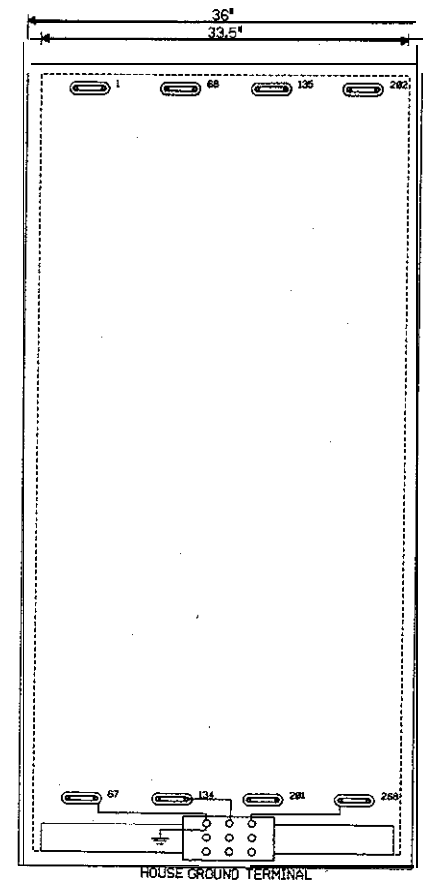
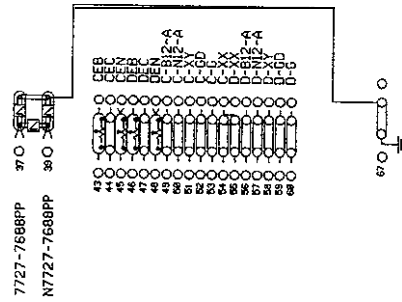
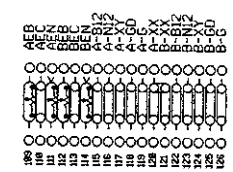
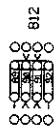


DES: WITT/JNM
DGN: WITT/JNM
CHK: J.J.E.
A.F.E. 004438E
ID: CSL7688.12X

UNION PACIFIC RAILROAD
JOLIET, ILLINOIS TO
BLOOMINGTON, ILLINOIS
C.T.C. CIRCUITS

DATE 5-1-01
SHEET 12
DWG 76.88
RTE-CSL


(REV. 7-9-00) (HOUSE TYP)



SCALE: 1.5 INCHES = 1 FOOT

NEW SHEET

DWIGHT, ILLINOIS
TR 21GB
M.P. 76.88
JOLIET SUBDIVISION
D.O.T. #290 732K
PROJ.*

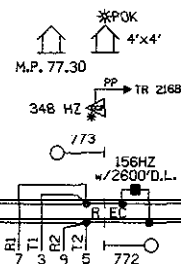
				5-1-01 UPGRADE CROSSING PROTECTION FOR THE HIGH SPEED RAIL PROJ. FROM M42-86 TO SPRINGFIELD AFE 004438E WITT	<table><tr><th colspan="2">MODIFICATION LEVEL</th></tr><tr><td>Q.A. LAST LEVEL CHK'D.</td><td>QA</td></tr><tr><td>LAST LEVEL MOD. THIS TYP.</td><td>CZ</td></tr><tr><td>LAST LEVEL BY DESIGNER.</td><td>DD</td></tr><tr><td>CHANGED FROM TYP. Y/N</td><td>Y</td></tr></table>	MODIFICATION LEVEL		Q.A. LAST LEVEL CHK'D.	QA	LAST LEVEL MOD. THIS TYP.	CZ	LAST LEVEL BY DESIGNER.	DD	CHANGED FROM TYP. Y/N	Y	 UNION PACIFIC SIGNAL DESIGN	<table><tr><td>DES: WITT,IND.</td></tr><tr><td>DIG: WITT,IND.</td></tr><tr><td>CHK: J.J.F.</td></tr><tr><td>A.F.E. 004438E</td></tr><tr><td>10=CSL7688.13X</td></tr></table>	DES: WITT,IND.	DIG: WITT,IND.	CHK: J.J.F.	A.F.E. 004438E	10=CSL7688.13X	UNION PACIFIC RAILROAD JOLIET, ILLINOIS TO BLOOMINGTON, ILLINOIS C.T.C. CIRCUITS OFFICE OF CHIEF ENGR	DATE 5-1-01 SHEET 13 DWG 76.88 RTE-CSL
MODIFICATION LEVEL																								
Q.A. LAST LEVEL CHK'D.	QA																							
LAST LEVEL MOD. THIS TYP.	CZ																							
LAST LEVEL BY DESIGNER.	DD																							
CHANGED FROM TYP. Y/N	Y																							
DES: WITT,IND.																								
DIG: WITT,IND.																								
CHK: J.J.F.																								
A.F.E. 004438E																								
10=CSL7688.13X																								

← TO BLOOMINGTON

→ TO JOLIET

4636' 35+5 SEC. 0 79 M.P.H.

PP



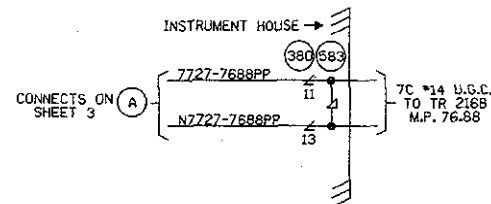
156HZ
TR 2168
M.P. 76.88

PP OFFSET DISTANCE = ' "

L.I. 2050' +/-

NOTES:

- ⊗ = TWISTED WIRES
ALL TRACK WIRES 2C. #6
INSULATED 1 TWIST PER FT.
TRANSMITTER AND RECEIVER LEADS
TO BE SEPARATED BY AT LEAST 12" IN TRENCH.
LENGTHS SHOULD NOT EXCEED MANUFACTURER'S
RECOMMENDATION.
ALL BUNGALOW WIRING TO BE #16 AWG FLEX
UNLESS OTHERWISE SPECIFIED EXCEPT ALL GROUND
WIRE TO BE #6 AWG FLEX OR LARGER.
REFER TO UP STANDARD DWG. FOR BUNGALOW
GROUNDING.
* = GCP IS WIRED AS A SEMI-BIDIRECTIONAL UNIT



**NEW
SHEET**

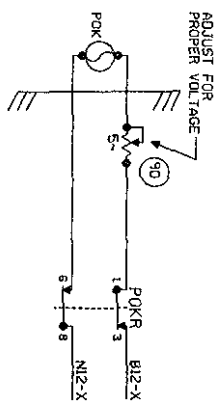
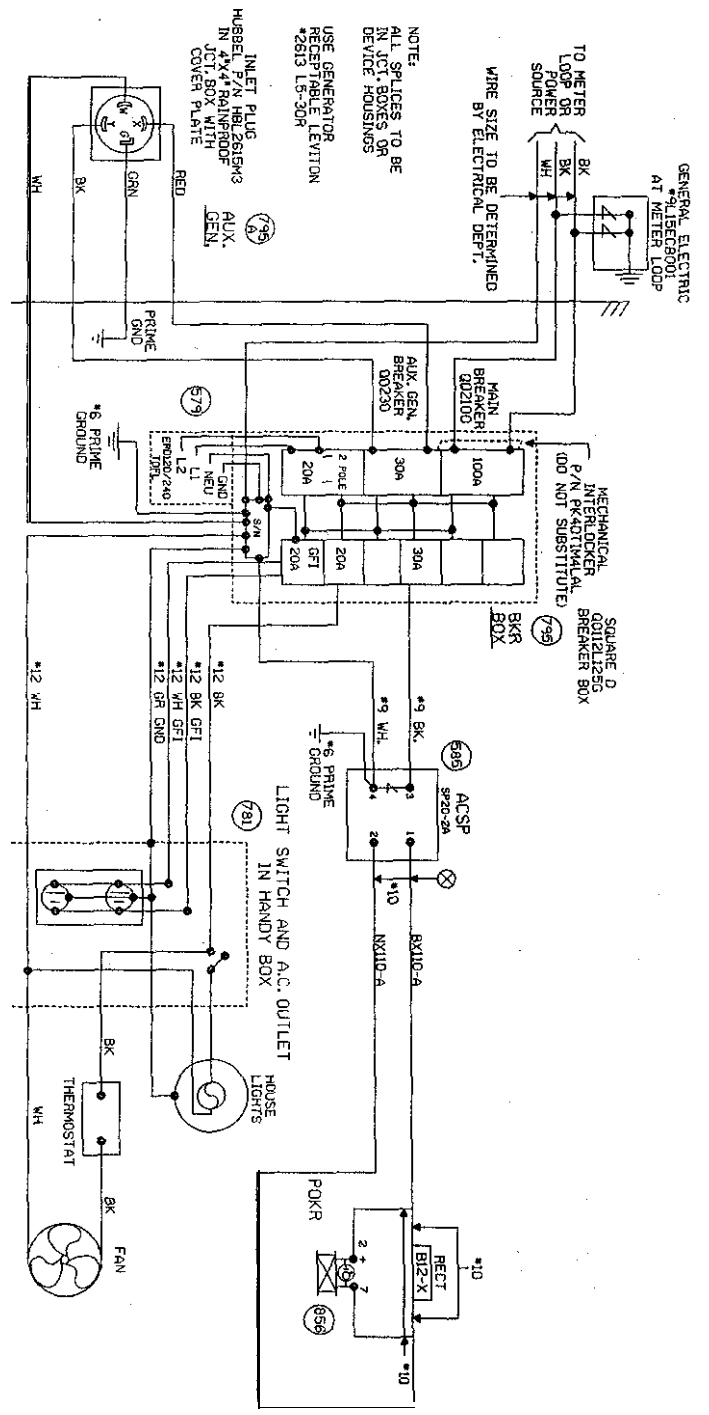
DWIGHT, ILLINOIS
REMOTE GCP LOCATION
M.P. 77.27
JOLIET SUBDIVISION
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(REV. 7-9-00) (RPM/TF.1)

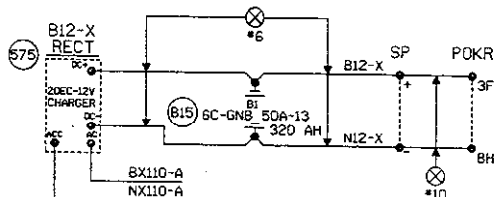
CONNECTS TO DRAWING 76.88



**NEW
SHEET**

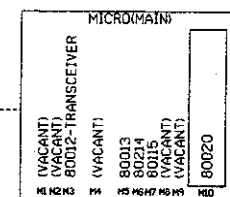
DWIGHT ILLINOIS
REMOTE GCP LOCATION
JOLIET SUBDIVISION
PROJ. #

5-1-01	MODIFICATION LEVEL	UNION PACIFIC	DES. WITTING	DATE
UPGRADE CROSSING PROTECTION FOR THE HIGH SPEED RAIL TO SPRINGFIELD AFE 004438E JUF M117/JWH	00	00	00	00
LAST LEVEL, W00 THIS TYP.	00	00	00	00
LAST LEVEL BY DESIGNER	00	00	00	00
CHANGED FROM TYP. 2 V/N	N	N	N	N
SIGNAL DESIGN	100	CSL 772/2X	OFFICE OF CHIEF ENGR.	DATE
UNION PACIFIC RAILROAD JOLIET, ILLINOIS TO BL MOUNTAIN, ILLINOIS C.T.C. CIRCUITS	DATE	DATE	DATE	DATE
RTE-CSL	DATE	DATE	DATE	DATE



EACH TRANSMITTER TO RAIL WIRE FROM TB1-1 AND TB1-2 MUST NOT EXCEED THE MAXIMUM LENGTH SPECIFIED IN THE TABLE SHOWN BELOW. THE RECEIVER WIRE LENGTH IS NOT CRITICAL. DOES NOT APPLY TO 6 TRACK WIRE APPLICATION.

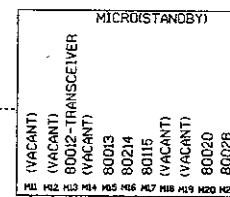
"MF" FREQUENCY (HZ)	MAXIMUM TRANSMIT WIRE LENGTH (FEET)
86	100
114	125
156	150
211	200
285-970	250



```

CONTROL INTERFACE ASSEMBLY
DAX #2 MODULE
DAX #1 MODULE
DATA RECORDER MODULE
PROCESSOR MODULE
RELAY DRIVE MODULE
TRANSCIVER #2 MODULE
TRANSCIVER #1 MODULE
ISLAND #2 MODULE
ISLAND #1 MODULE


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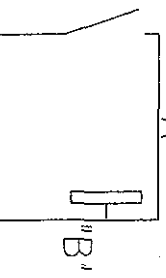
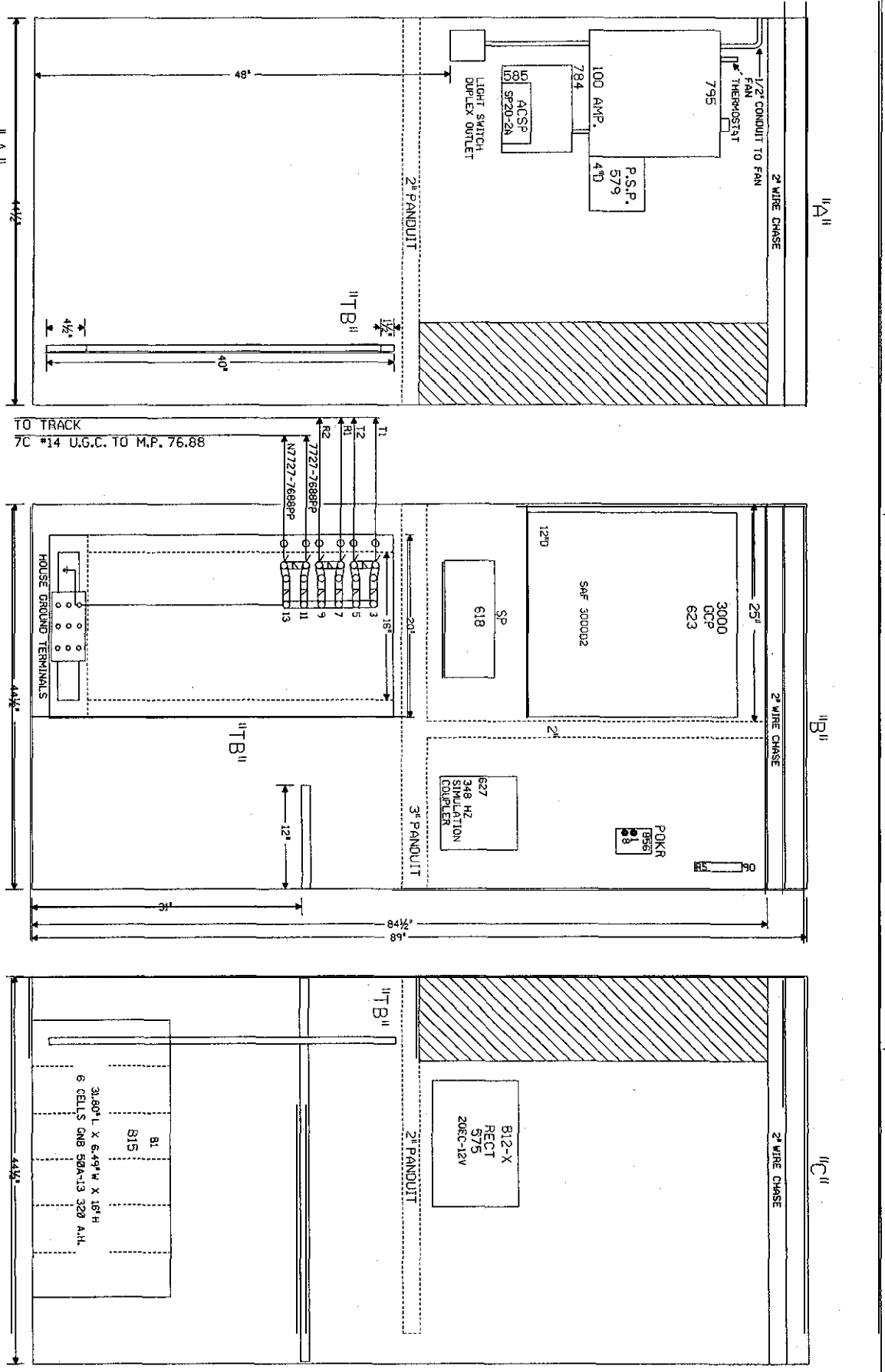


- TRANSFER MODULE
- CONTROL INTERFACE
- DAX #2 MODULE
- DAX #1 MODULE
- DATA RECORDER MODULE
- PROCESSOR MODULE
- RELAY DRIVE MODULE
- TRANSCEIVER #2 MODULE
- TRANSCEIVER #1 MODULE
- ISLAND #2 MODULE
- ISLAND #1 MODULE

**NEW
SHEET**

DWIGHT, ILLINOIS
GCP REMOTE LOCATION
M.P. 77.27
JOLIET SUBDIVISION
PROJ.*

			5-1-01 UPGRADE CROSSING PROTECTION FOR THE HIGH SPEED RAIL PROJ. FROM MAZONIA TO SPRINGFIELD. AFE 004438E JJJF WITT/JNM		MODIFICATION LEVEL Q.A. LAST LEVEL CHK'D. DA LAST LEVEL MOD. THIS TYP. CZ LAST LEVEL BY DESIGNER. DD CHANGED FROM TYP.? Y/N Y		UNION PACIFIC  SAFETY SIGNAL DESIGN		DES. WITT.JNG. DGN. WITT.JNG. CHKG J.J.F. A.F.E. 004438E ID: CSL7727.3X		UNION PACIFIC RAILROAD JOLIET, ILLINOIS TO BLOOMINGTON, ILLINOIS C.T.C. CIRCUITS		DATE 5-1-01 SHEET 3 DWG 77.27 RTE-CSL	
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NOTE: ALL DIMENSIONS SHOWN ARE APPROXIMATE.

SCALE: 1/8" = 1 FOOT

5-1-01		MODIFICATION LEVEL		UNION PACIFIC		DES. WITTING		DATE 5-1-01	
UPGRADE CROSSING PROTECTION FOR THE PROPOSED RAILROAD FROM MAINTENANCE TO SPRINGFIELD, ILL. (SEE DRAWING 77-27-101)	LAST LEVEL, MOD. THIS TRF.	LAST LEVEL, MOD. THIS TRF.	DD	DD	DD	DD	DD	SHEET 4	
	LAST LEVEL, 87 DESIGNER	LAST LEVEL, 87 DESIGNER	DD	DD	DD	DD	DD	DWG 77-27	
	DESIGNED FROM TRF 2 1/8"	DESIGNED FROM TRF 2 1/8"	Y	Y	Y	Y	Y	RTE-CSL	
UNION PACIFIC RAILROAD		JOLIET, ILLINOIS TO BLOOMINGTON, ILLINOIS		C.T.C. CIRCUITS		DRAWN BY: RTR		RTE-CSL	
UNION PACIFIC RAILROAD		JOLIET, ILLINOIS TO BLOOMINGTON, ILLINOIS		C.T.C. CIRCUITS		DRAWN BY: RTR		RTE-CSL	
UNION PACIFIC RAILROAD		JOLIET, ILLINOIS TO BLOOMINGTON, ILLINOIS		C.T.C. CIRCUITS		DRAWN BY: RTR		RTE-CSL	

NEW SHEET

DWIGHT, ILLINOIS
REMOVED GCP LOCATION
JOLIET SUBDIVISION
PROJ.

APP. 2-7-01 1 (C)FRANITZ-41